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Marco Chierotti, Jerzy W. Rozenblit, Witold Jacak

 December 1991 **Proceedings of the 23rd conference on Winter simulation**

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2 [Man-machine interaction in the design of rotating electrical machines](#)

Bernard J. Bennington

 January 1969 **Proceedings of the 6th annual conference on Design Automation**

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When engineering design is considered as a part of the more general study of system design or problem solving, it becomes apparent that it subdivides into the separate problems of design analysis, design synthesis and system identification. Rotating electrical machinery presents a uniquely complicated system of non-linear, constrained, discrete and discontinuous relationships. The economical solution of the design of electrical machines in our industrial society can only be achieved ...

3 [Modeling methodology: Architectures and languages for model building and reuse: organization and selection of reconfigurable models](#)

Antonio Diaz-Calderon, Christiaan J. J. Paredis, Pradeep K. Khosla

 December 2000 **Proceedings of the 32nd conference on Winter simulation**

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This paper introduces the concept of reconfigurable simulation models and describes how these models can be used to support simulation-based design. As in object-oriented programming, a reconfigurable model consists of a separate interface and multiple implementations. An AND-OR tree represents which implementations can be bound to each interface. From the resulting model space, a designer can quickly select the simulation model that is most appropriate for the current design stage. We conclude ...

4 [A flexible assembly global control simulation](#)

Thomas Ernst, Avetik P. Matevosian

 December 1993 **Proceedings of the 25th conference on Winter simulation**

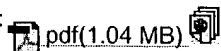
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5 An Illustrated Analysis of Sonification for Scientific Visualisation

R. Minghim, A. R. Forrest

October 1995 **Proceedings of the 6th conference on Visualization '95**

Full text available:



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This paper presents an analysis of progress in the use of sound as a tool in support of visualisation and gives an insight into its development and future needs. Special emphasis is given to the use of sound in Scientific and Engineering Applications. A system developed to support surface data presentation and interaction by using sound is presented and discussed.

Keywords: visualisation, sonification, surfaces, audio cues

6 Visualization of supercomputer simulations in physics

V. Watson, G. Bancroft, T. Plessel, F. Merritt, P. P. Walatka

August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

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Recent advances in computer graphics hardware and software have resulted in major improvements in our ability to experience computer simulations of physics by viewing dynamic three-dimensional scenes representing the simulations. This paper describes the hardware and software tools and techniques in use at NASA's Numerical Aerodynamic Simulation Facility for visualization of computational fluid dynamics. The visualization process is illustrated by video tapes and stereo pictures (av ...

7 Solving engine maintenance capacity problems with simulation

Robert Gatland, Eric Yang, Kenneth Buxton

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Energy Conversion, IEEE Transactions on , Volume: 3 , Issue: 2 , June 1988
Pages:420 - 426
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2 **Resonant frequencies and mode shapes of switched reluctance motor**

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3 **Slip-frequency type and flux-feedback type vector controls in discrete time system**

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Industrial Electronics, IEEE Transactions on , Volume: 44 , Issue: 3 , June 1998
Pages:382 - 389
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4 **Novel full-order flux observer structure for speed sensorless induction motors**

Hinkkanen, M.; Luomi, J.;

Industrial Electronics Society, 2001. IECON '01. The 27th Annual Conference IEEE , Volume: 2 , 29 Nov.-2 Dec. 2001
Pages:1333 - 1338 vol.2

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[\[Abstract\]](#) [\[PDF Full-Text \(442 KB\)\]](#) IEEE CNF

5 The relationship between performance characteristics and size of permanent magnet motors

Binns, K.J.; Shimmin, D.W.;

Electrical Machines and Drives, 1995. Seventh International Conference on (C Publ. No. 412) , 11-13 Sep 1995

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6 Sensorless speed and direct torque control of surface permanent m synchronous machines using stochastic filtering techniques

Comnac, V.; Moldoveanu, F.; Cernat, M.;

Electrical and Electronics Engineers in Israel, 2002. The 22nd Convention of , Dec. 2002

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7 Sensorless direct torque and stator flux control of induction machin using an extended Kalman filter

Comnac, V.; Cernat, M.; Cotorogea, M.; Draghici, I.;

Control Applications, 2001. (CCA '01). Proceedings of the 2001 IEEE Internati Conference on , 5-7 Sept. 2001

Pages:674 - 679

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8 Anti-friction bearing temperature rise for NEMA frame motors

Maru, B.; Zotos, P.A.;

Petroleum and Chemical Industry Conference, 1988, Record of Conference Pa Industrial Applications Society 35th Annual , 12-14 Sept. 1988

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9 Machine modeling and universal controller for vector-controlled induction motor drives

Yen-Shin Lai;

Energy Conversion, IEEE Transactions on , Volume: 18 , Issue: 1 , March 200

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10 Travelling wave ultrasonic motor using the B₀₈ flexural mode of a circular membrane

Rayner, P.J.; Whatmore, R.W.;

Ultrasonics, Ferroelectrics and Frequency Control, IEEE Transactions on , Vol 48 , Issue: 3 , May 2001

Pages:683 - 690

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11 Effects of toothless stator design on dynamic model parameters of permanent magnet generators

Arkadan, A.A.; Vyas, R.;

Energy Conversion, IEEE Transactions on , Volume: 8 , Issue: 2 , June 1993
Pages:243 - 250

[\[Abstract\]](#) [\[PDF Full-Text \(140 KB\)\]](#) **IEEE JNL**

12 Sensorless control of induction machine with parameter adaptation

Ambrozic, V.; Nedeljkovic, D.; Nastran, J.;

Industrial Electronics, 1999. ISIE '99. Proceedings of the IEEE International Symposium on , Volume: 2 , 12-16 July 1999
Pages:724 - 728 vol.2

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13 Magnetic vibration of three-phase induction motors supplied by inverters

Munoz, A.R.; Araya, C.L.;

Industrial Electronics, 1994. Symposium Proceedings, ISIE '94., 1994 IEEE International Symposium on , 25-27 May 1994
Pages:210 - 213

[\[Abstract\]](#) [\[PDF Full-Text \(216 KB\)\]](#) **IEEE CNF**

14 Spacecraft attitude control using an induction motor actuated reaction wheel with sensorless forced dynamic drive

Dodds, S.J.; Vittek, J.;

All Electric Aircraft (Digest No. 1998/260), IEE Colloquium on , 17 June 1998
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15 Design and precise realization of optimized current waveforms for 8/6 switched reluctance drive

Chapman, P.L.; Sudhoff, S.D.;

Power Electronics, IEEE Transactions on , Volume: 17 , Issue: 1 , Jan. 2002
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Digital simulation of field oriented control using AN program

Rafajlovski, G. Manov, D.

Dept. of Electr. Machines, Univ. St. Kiril & Metodij, Skopje, Macedonia;

This paper appears in: Electrotechnical Conference, 1996. MELECON '96 Mediterranean

Meeting Date: 05/13/1996 - 05/16/1996

Publication Date: 13-16 May 1996

Location: Bari Italy

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Volume: 3

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Abstract:

In this paper mathematical models for dynamic analysis of induction motors in rotor and rotor flux coordinate systems are described. Also a detailed control based on the principle of **magnetic** field oriented control is shown here. During simulation all the vectors of the voltages, currents and fluxes in the induction connected with a rotating **frame** of a rotor flux reference

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S.; Itomi, K.;

Energy Conversion, IEEE Transactions on, Volume: 18, Issue: 3, Sept. 2001
Pages:357 - 361
[\[Abstract\]](#) [\[PDF Full-Text \(537 KB\)\]](#) IEEE JNL

2 Magnetic vibration of three-phase induction motors supplied by inv

Munoz, A.R.; Araya, C.L.;

Industrial Electronics, 1994. Symposium Proceedings, ISIE '94., 1994 IEEE International Symposium on, 25-27 May 1994
Pages:210 - 213
[\[Abstract\]](#) [\[PDF Full-Text \(216 KB\)\]](#) IEEE CNF

3 Analysis of an induction motor fed from a six step voltage source inverter

Mishra, A.; Ojo, O.;

Southeastcon '91., IEEE Proceedings of, 7-10 April 1991
Pages:1001 - 1004 vol.2
[\[Abstract\]](#) [\[PDF Full-Text \(180 KB\)\]](#) IEEE CNF

4 Electromagnetic noise radiated by brushless permanent magnet DC drives

Zhu, Z.Q.; Howe, D.;

Electrical Machines and Drives, 1993. Sixth International Conference on (Conf. Publ. No. 376), 8-10 Sep 1993
Pages:606 - 611

[\[Abstract\]](#) [\[PDF Full-Text \(452 KB\)\]](#) IEEE CNF

5 IPM synchronous machine drive response to a single-phase open circuit fault

Welchko, B.A.; Jahns, T.M.; Hiti, S.;

Power Electronics, IEEE Transactions on , Volume: 17 , Issue: 5 , Sept. 2002
Pages:764 - 771

[\[Abstract\]](#) [\[PDF Full-Text \(389 KB\)\]](#) IEEE JNL

6 Design and precise realization of optimized current waveforms for a 8/6 switched reluctance drive

Chapman, P.L.; Sudhoff, S.D.;

Power Electronics, IEEE Transactions on , Volume: 17 , Issue: 1 , Jan. 2002
Pages:76 - 83

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7 Sliding mode control of interior permanent magnet synchronous motor

Cernat, M.; Comnac, V.; Cotorogea, M.; Korondi, P.; Ryvkin, S.; Cernat, R.-M.
Power Electronics Congress, 2000. CIEP 2000. VII IEEE International , 15-19
2000

Pages:48 - 53

[\[Abstract\]](#) [\[PDF Full-Text \(432 KB\)\]](#) IEEE

8 Sensorless speed and direct torque control of surface permanent magnet synchronous machines using stochastic filtering techniques

Comnac, V.; Moldoveanu, F.; Cernat, M.;

Electrical and Electronics Engineers in Israel, 2002. The 22nd Convention of ,
Dec. 2002

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9 IPM synchronous machine drive response to a single-phase open circuit fault

Welchko, B.A.; Jahns, T.M.; Hiti, S.;

Applied Power Electronics Conference and Exposition, 2001. APEC 2001. Sixteenth
Annual IEEE , Volume: 1 , 4-8 March 2001

Pages:421 - 427 vol.1

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10 Optimized waveform control for an 8/6 switched reluctance motor

Chapman, P.L.; Sudhoff, S.D.;

Applied Power Electronics Conference and Exposition, 2001. APEC 2001. Sixteenth
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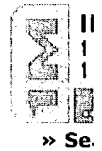
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Electrical Insulation Conference, 1997, and Electrical Manufacturing & Coil Winding Conference. Proceedings, 22-25 Sept. 1997

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2 In-slot stator winding of DC brushless motors
Mumford, D.W.;

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3 Bureau of Reclamation guidelines regarding high-voltage rotating machine stator winding procurement, installation, and maintenance procedures
Arbour, R.C.; Milano, B.;

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4 Reduction of cogging torque in interior-magnet brushless machines
Zhu, Z.Q.; Ruangsinchaiwanich, S.; Schofield, N.; Howe, D.;

Magnetics, IEEE Transactions on, Volume: 39, Issue: 5, Sept. 2003

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[\[Abstract\]](#) [\[PDF Full-Text \(475 KB\)\]](#) IEEE JNL

5 Effect of pole to slot number ratio on back-EMF constant of BLDC motor with nonoverlapping stator winding

Han-Sam Cho; Hyun-Rae Cho; Hae-Seok Lee;

Electric Machines and Drives, 1999. International Conference IEMD '99 , 9-12 1999

Pages:54 - 56

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6 Skew and linear rise of MMF across slot modelling-winding function approach

Gojko, J.M.; Momir, D.D.; Aleksandar, O.B.;

Energy Conversion, IEEE Transactions on , Volume: 14 , Issue: 3 , Sept. 1999

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7 Novel insights into the nonlinear dependency of the airgap magnetic density of synchronous generators with fractional slot windings in various operational states

Grabner, C.; Schmidt, E.;

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Pages:471 - 474 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(375 KB\)\]](#) IEEE CNF

8 Winding inductances of brushless machines with surface-mounted magnets

Zhu, Z.Q.; Howe, D.;

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[\[Abstract\]](#) [\[PDF Full-Text \(312 KB\)\]](#) IEEE CNF

9 Voltage distribution in stator windings of the motor driven by PWM inverter

Wan Jianru; Liu Hongchi; Yu Huajun;

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Pages:727 - 731 vol.2

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10 Investigations on a linear induction machine for railway application

Hofmann, R.; Binder, A.; Pfeiffer, R.;

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11 The system of electrodes of the uniform field of stator slot and the insulation of high-voltage turbo- and hydrogenerators

Kuzmin, V.V.; Khaimovitch, L.L.;

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Pages:199 - 202

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12 Calculation of rotor eddy-current loss in high-speed PM alternators

Mabu Sharkh, S.; Harris, M.R.; Irenji, N.T.;

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Radun, A.;

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14 Preventative maintenance of turbine-generator stator windings

Fenton, R.E.; Gott, B.E.B.; Maughan, C.V.;

Energy Conversion, IEEE Transactions on , Volume: 7 , Issue: 1 , March 1992

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15 Online stator fault diagnosis in induction motors

Arkan, M.; Perovic, D.K.; Unsworth, P.;

Electric Power Applications, IEE Proceedings- , Volume: 148 , Issue: 6 , Nov.

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Mo-yuen Chow, Sui Oi Yee

 June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**

 Full text available: pdf(751.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes several artificial neural network architectures for real time application in incipient fault detection of induction machines. The artificial neural networks perform the fault detection in real time, based on direct measurements from the motor, and no rigorous mathematical model of the motor is needed. Different approaches used to develop a reliable fault detector are presented and compared in this paper. The designed networks vary in complexity and accuracy. A high-order ...

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Thomas Ernst, Avetik P. Matevosian

 December 1993 **Proceedings of the 25th conference on Winter simulation**

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3 [Man-machine interaction in the design of rotating electrical machines](#)

Bernard J. Bennington

 January 1969 **Proceedings of the 6th annual conference on Design Automation**


 Full text available: pdf(1.08 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

When engineering design is considered as a part of the more general study of system design or problem solving, it becomes apparent that it subdivides into the separate problems of design analysis, design synthesis and system identification. Rotating electrical machinery presents a uniquely complicated system of non-linear, constrained, discrete and discontinuous relationships. The economical solution of the design of electrical machines in our industrial society can only be achieved ...

4 [Visualization of supercomputer simulations in physics](#)

V. Watson, G. Bancroft, T. Plessel, F. Merritt, P. P. Walatka

 August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

Full text available:  pdf(1.40 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recent advances in computer graphics hardware and software have resulted in major improvements in our ability to experience computer simulations of physics by viewing dynamic three-dimensional scenes representing the simulations. This paper describes the hardware and software tools and techniques in use at NASA's Numerical Aerodynamic Simulation Facility for visualization of computational fluid dynamics. The visualization process is illustrated by video tapes and stereo pictures (av ...

5 [Evolution of the design of a high volume automatic car merge](#)



K. Chung, J. E. Evans, D. R. Hobaugh

January 1969 **Proceedings of the 6th annual conference on Design Automation**

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In a high volume materials handling system, such as required for baggage handling at airports, it is necessary to minimize transit times between points in the system, i.e. a high speed mainline. It is further necessary for baggage to be entered into and retrieved from the system with the baggage containers at a virtual standstill. Thus arises the basic problem of accelerating a baggage container from standstill to mainline velocity and merging the container into mainline traffic without col ...

6 [Gordon Bell awards session: Development and achievement of NAL numerical wind tunnel \(NWT\) for CFD computations](#)



H. Miyoshi, M. Fukuda, T. Iwamiya, T. Nakamura, M. Tuchiya, M. Yoshida, K. Yamamoto, Y. Yamamoto, S. Ogawa, Y. Matsuo, T. Yamane, M. Takamura, M. Ikeda, S. Okada, Y. Sakamoto, T. Kitamura, H. Hatama, M. Kishimoto

November 1994 **Proceedings of the 1994 ACM/IEEE conference on Supercomputing**

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NAL Numerical Wind Tunnel (NWT) is a distributed memory parallel computer developed through joint research and development of NAL and Fujitsu. It is based on the analysis of CFD codes developed in NAL. The target performance is more than 100 times faster than VP400. In this paper, the parallel computation model employed in the development of the NWT is described. The specification and feature of the NWT and the NWT Fortran are discussed. Finally, Performance evaluations and some applications are ...

7 [Mixed electrical-thermal and electrical-mechanical simulation of electromechatronic systems using PSpice](#)



Konstantin O. Petrosjanc, Peter P. Maltcev

September 1994 **Proceedings of the conference on European design automation**

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